

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04510

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L25/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	YLITALO J: "Channel estimation study of CDMA downlink for fixed beam BTS" 13TH IEEE INTERNATIONAL SYMPOSIUM ON PERSONAL INDOOR AND MOBILE RADIO COMMUNICATIONS. PIMRC 2002. PROCEEDINGS (CAT. NO.02TH8637), pages 242-246 vol.1, XP010614223 2002, Piscataway, NJ, USA ISBN: 0-7803-7589-0 the whole document	1,14,15, 18,19
A	---	2-13,16, 17
X	EP 1 191 755 A (NOKIA CORP) 27 March 2002 (2002-03-27) abstract	1,14,15, 18,19
A	---	2-13,16, 17
	--- -/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

19 February 2004

Date of mailing of the International search report

03/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Koukourlis, S

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04510

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BALTERSEE J ET AL: "Performance analysis of phasor estimation algorithms for a FDD-UMTS RAKE receiver" 2000 IEEE SIXTH INTERNATIONAL SYMPOSIUM ON SPREAD SPECTRUM TECHNIQUES AND APPLICATIONS. ISSTA 2000. PROCEEDINGS (CAT. NO.00TH8536), pages 476-480 vol.2, XP002270949 2000, Piscataway, NJ, USA ISBN: 0-7803-6560-7 cited in the application the whole document	1,14,15, 18,19
A	-----	2-13,16, 17
X	NOKIA: "Proposal for user-specific beamforming for UTRA FDD, R4-010528" TSG RAN WG4 MEETING #17, 21 - 25 May 2001, XP002270950 Gothenburg, Sweden cited in the application the whole document	1,14,15, 18,19
A	-----	2-13,16, 17
X	ERICSSON: "Dedicated Pilots, R4-010594" TSG RAN WG4 MEETING #17, 21 - 25 May 2001, XP002270951 Gothenburg, Sweden cited in the application the whole document	1,14,15, 18,19
A	-----	2-13,16, 17
P,X	SEEGER A ET AL: "Antenna weight verification for closed-loop downlink eigenbeamforming" GLOBECOM'02. 2002 - IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE. CONFERENCE PROCEEDINGS. TAIPEI, TAIWAN, NOV. 17 - 21, 2002, IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE, NEW YORK, NY: IEEE, US, vol. 1 OF 3, 17 November 2002 (2002-11-17), pages 982-986, XP010636096 ISBN: 0-7803-7632-3 the whole document	1,14,15, 18,19
P,A	-----	2-13,16, 17

INTERNATIONAL SEARCH REPORT

PCT/IB 03/04510

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 1191755	A	27-03-2002	BR	0104272 A	07-05-2002
			CN	1345136 A	17-04-2002
			EP	1191755 A2	27-03-2002
			JP	2002185376 A	28-06-2002